7   packaging the fragments into the data packages such that the data

8 packages are separately transmittable over the conveying network and such

9 that the data packages are separately transmittable by a short message service;

10   the data packages include a reference parameter corresponding to a

11 number indicating the position of the fragments in the message.

1   28.   The method of claim 27, wherein:

2   the dividing step is performed by a fragmenter;

3   the packaging step is performed by a packager; and

4   the fragmenter and the packager comprise a message center coupled to a

5 serving wireless telecommunications network that transmits the message to the

6 wireless terminal.

1   29.   The method of claim 27, wherein:

2   the dividing step is performed by a fragmenter;

3   the packaging step is performed by a packager; and

4   the fragmenter and the packager comprise a short message entity.

1   30.   The method of claim 27, wherein the packaging step is performed

2 by a packager, and the packager adds the reference parameter into the data

3 packages.

1   31.   The method of claim 27, wherein the data packages further include

2 one or more of the following: an indicia of the size of the message, and an

3 indicia of the identity of the message.

1   32.   A method for transmitting a message using a short message service

2 over a conveying network in more than one data package, the method

3 comprising:

4   dividing the message into fragments at a short message service

5   application protocol layer based on the capacity of the conveying network such

6   that the size of the fragments does not exceed the capacity of the conveying

7   network; and

8   packaging the fragments into the data packages such that the data

9   packages are separately transmittable by the short message service over the

10   conveying network;

11   the data packages include a reference parameter corresponding to a

12   number indicating the position of the fragments in the message.

1   33.   The method of claim 32, further comprising the step of determining

2   a capacity of the components of the conveying network for transmitting data,

3   the capacity of the conveying network being a maximum amount of data that

4   can be transmitted through the conveying network as a single package of data.

1   34.   The method of claim 32, wherein:

2   the dividing step is performed by a fragmenter;

3   the packaging step is performed by a packager; and

4   the fragmenter and the packager comprise a message center coupled to a

5   serving wireless telecommunications network that transmits the message to the

6   wireless terminal.

1   35.   The method of claim 32, wherein:

2   the dividing step is performed by a fragmenter;

3   the packaging step is performed by a packager; and

4   the fragmenter and the packager comprise a short message entity.

1   36.   The method of claim 32, wherein the packaging step is performed

2   by a packager, and the packager adds the reference parameter into the data

3   packages.

1   37.   The method of claim 32, wherein the data packages further include

2   one or more of the following: an indicia of the size of the message, and an

3   indicia of the identity of the message.

1   38.   A method for transmitting a message over a conveying network in

2   more than one data package, the method comprising:

3   dividing the message into fragments at a short message service

4   application protocol layer based on the capacity of the conveying network such

5   that the size of the fragments does not exceed the capacity of the conveying

6   network, the capacity of the conveying network being a maximum amount of

7   data that can be transmitted through the conveying network as a single

8   package of data; and

9   packaging the fragments into the data packages such that the data

10   packages are operable to be separately transmitted by a short message service

11   over the conveying network, data packages include a reference parameter

12   corresponding to a number indicating the position of the fragments in the

13   message.

1   39.   The method of claim 38, further comprising the step of determining

2   a capacity of the components of the conveying network for transmitting data.

1   40.   The method of claim 38, wherein the packaging step is performed

2   by a packager, and the packager adds the reference parameter into the data

3   packages.

1   41.   The method of claim 38, wherein the data packages further include
2   one or more of the following: an indicia of the size of the message, and an
3   indicia of the identity of the message.

1   42.   The method of claim 39, wherein each element of the information
2   path over which the data packages are transmitted is used in determining the
3   capacity of the conveying network.

1   43.   The method of claim 39, wherein the step of determining a capacity
2   comprises determining one or more of the following: a number of characters in
3   the message that are operable to be transmitted in the data packages, and a
4   number of bits in the message that are operable to be transmitted in the data
5   packages.

1   44.   The method of claim 39, wherein the step of determining the
2   capacity comprises determining the capacity based on a capacity indication
3   from a serving wireless telecommunications network in the conveying network.

1   45.   The method of claim 38, wherein:
2   the dividing step is performed by a fragmenter;
3   the packaging step is performed by a packager; and
4   the fragmenter and the packager comprise a message center coupled to a
5   serving wireless telecommunications network that transmits the message to the
6   wireless terminal.

1   46.   The method of claim 38, wherein:
2   the dividing step is performed by a fragmenter;
3   the packaging step is performed by a packager; and
4   the fragmenter and the packager comprise a short message entity.

5

15